



**Department of Energy**

ROCKY FLATS FIELD OFFICE  
10808 HIGHWAY 93, UNIT A  
GOLDEN, COLORADO 80403-8200

**NOV 08 2001**

01-DOE-02074

Mr. Steven H. Gunderson  
Rocky Flats Cleanup Agreement Coordinator  
Colorado Department of Public Health and Environment  
4300 Cherry Creek Drive South  
Denver, CO 80222-1530

Dear Mr. Gunderson:

In accordance with the Rocky Flats Cleanup Agreement Standard Operating Protocol (RSOP) for Recycling Concrete, this letter is being prepared to provide notification that the RSOP will be implemented for the concrete associated with Building 111 and address the letter report requirements for additional backfill locations. The concrete to be recycled under this notification was characterized in the Reconnaissance Level Characterization Report dated February 14, 2001 and will be dispositioned according to the RSOP and the "Risked Based Approach for In-situ Backfill of Polychlorinated Biphenyls (PCB) - Based Painted Concrete" as approved by the Environmental Protection Agency letter reference 8EPR-F.

The Building 111 demolition will be initiated mid-November 2001 backfill activity will be initiated the end of November. A crusher will be mobilized to the site to prepare the material. The subcontractor has prepared the crushing and backfill requirements to achieve the performance specification in the RSOP of a lifetime subsidence of no more than 1%. The subcontractor will compact the backfill with a hydraulic tamper and test each lift in accordance with ASTM D 2922 (nuclear density testing).

Because the contract for the recycling is a commercial demonstration contract, the formal use of Integrated Work Control as implemented across the Site will not occur. Rather work control will be by standard commercial means. The documents providing the work control will be made available on Site for your use.

During the demolition, a temporary stockpile will be made from the concrete on the west side of the project area on the pavement. A silt fence will be installed to control silt from surface water around the stockpile, and surfactant will be applied to control dust.



**ADMIN RECORD**

B111-A-000012

DOCUMENT CLASSIFICATION  
REVIEW WAIVER PER  
CLASSIFICATION OFFICE

09X-077-99

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In accordance with Section 8.1 of the referenced RSOP, there are three criteria for backfill locations: backfill is required to meet the final grading requirements; there are no impacts to surface water; and restoration activities and verification sampling is complete and data has been verified and validated.

#### Backfill Requirements

It is anticipated that the Building 111 demolition activity will result in approximately 3,200 cubic yards of concrete for recycling. A portion of the building has a basement, which will require approximately 1,350 cubic yards of fill. Concrete that is not recycled in the Building 111 basement will be placed on the 980 pad for storage. At a minimum, 12 inches of soil will be placed for the purposes of revegetation. This depth exceeds the required 6-9 inches of soil needed to provide normal vegetation. The basement area will be backfilled to match the surrounding grade as a temporary measure until final grade is determined.

#### Surface Water Impacts

The backfill will be placed into the basement with the basement intact. The basement is above the water table for most of the year, and when ground water inside or outside the foundation is present, it can intrude and exit as the floor is not sealed to the walls. The Building 111 backfill area is not within a drainage area. The Building 111 Project will not alter the drainage patterns. Therefore, there are no impacts to surface water.

#### Remediation Status

There was one potential area of concern (PAC) associated with Building 111, PAC 100-607. This PAC was assessed during the Building 111 characterization activities, and a no further action approved by CDPHE and EPA on April 12, 2001. There are no individual hazardous substance sites or under building contamination associated with Building 111

Expedited review is requested as the building will soon begin demolition. Questions can be directed to Steve Tower RFFO FCD at (303) 966-2133.



Joseph A. Legare  
Assistant Manager  
for Environment and Stewardship

Enclosure

cc w/o Encl:  
S. Tower, Projects  
C. Freiboth, K-H RISS  
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T. Rehder, EPA Region VIII  
Building 850 Administrative Record

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